

Pat. 8317
(57) Abstract

The invention relates to an arrangement for an integrated tunable resonator for radio and a method for producing the same. In particular the invention relates to an RF resonator realised with a micromechanical tunable capacitor with high Q- (quality factor) value and a method for fabricating the same. In one particular embodiment of the arrangement in accordance with the invention the first conducting layer (4) forms the first capacitor electrode (8), and/or the electrodes (9) to create the electrostatic force on the movable micromechanical structure (2), and the inter-connecting wire (10) between the inductor coil (1) and the capacitor electrode. The invention presents a substantial improvement to the linearity, power consumption, occupation space and reliability of RF resonator circuits.

Figure 6b